

Ty Krieger

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EXPERIENCE

Business Administrator, Trans Astronautica Corporation (TransAstra) *October 2021 - August 2022*

TransAstra is a Y Combinator '21 alumni focused on Orbital Logistics and Asteroid Mining

- Fulfilled all company FP&A needs, including financial reporting, predictive modeling for operational expenditure, and planning for future capital expenditure
- Created quarterly presentations and reports in support of CEO Joel Sercel for the Board of Directors
- Modeled capital raise to identify key quantitative factors and support our fundraising strategy
- Edited Pitch Decks and Government proposals, which includes creation of non-technical graphics, edits to technical graphs for readability, revision of text (with the support of technical experts), and edits for grammar
- Analyzed and critiqued company scaling strategy to improve outlook, with a focus on hiring needs and minimization of unnecessary risk
- Led processes in HR, IT, Purchasing, Event Planning, compliance with ITAR, and Social Media amidst a headcount expansion from 10 to 25, with emphasis on maintaining company agility and minimizing overhead

Currency Research Intern, North American Development Bank *September 2020 - November 2020*

- Analyzed and researched the exchange rate volatility of the Mexican Peso in support of Risk Management
- Produced a GARCH model in Excel using advanced functions, including SUMIF and Lookup, alongside functions added via the NumXL plugin
- Presented my numerical analysis in a group alongside other qualitative academic analyses as a deliverable

Analytics Contractor, Texas Youth Football Association (TYFA) *September 2019 - March 2020*

- Created a rating system in Excel and R with the commissioner of TYFA, to be used as a seeding tiebreaker
- Determined that ELO was our best approach, with modifications to bake-in collaboratively-defined incentives
- Presented model to commissioner and leadership counsel of TYFA with focus on positive communication with a group of broad technical backgrounds

EDUCATION

B.S. in Mathematical Finance, Trinity University (San Antonio, TX) *August 2017 - May 2021*

Relevant courses: Corporate Finance, International Finance, Financial Mathematics (with a focus on Derivatives), Real Estate & Alternative Investments, Econometrics, Differential Equations, Sports Analytics, Accounting I

ADDITIONAL PROJECTS

The Hive, Trans Astronautica Corporation *November 2021 – June 2022*

- Planned and executed logistics of moving to “The Hive,” a 7000 sq ft. industrial lab, advising to prioritize R&D schedule and staff needs while minimizing cost and risk in scheduling and currency
- Led the management and coordination of various contractors and large, long-lead time purchases
- Supported CBO in planning a large open house for company partners

Project Business Analytics Contractor, Rosella Coffee & Wine *May 2021*

- Supported local coffee shop in determining if they could re-open through revenue modeling and annual budgeting with situational analysis in Excel, including pivot tables, supported with graphics created in Tableau

Leveraged Buyout (LBO) Real Estate Analysis, Trinity University *May 2021*

- Compared debt structures via sensitivity analyses with IRR as an output of multiple expansion, debt percentage, and margin improvement over the holding period, including a recommended budget (in Present Value) for buyout as if supporting a deal-making process

Export Analysis with Tecnológico de Monterrey students, Trinity University *November 2020*

- In a group of US and Mexican students, picked a Latin American country to export to as a case study for an eyewear company, taking into account factors in macroeconomics, domestic trends, and import law

SKILLS

Technical: Proficient in R, Stata, Carta, and Excel, including LOOKUP, SUMIF, and pivot table functions. Project experience in R, Python, Tableau, and SQL.

Functional: Teamwork, agility, presentation and communication, and ‘coachability.’ Beginning experience in professional leadership, project management, and conflict resolution.